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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	CAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content
NEWS 18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20	Feb 13	CANCERLIT is no longer being updated
NEWS 21	Feb 24	METADEX enhancements
NEWS 22	Feb 24	PCTGEN now available on STN
NEWS 23	Feb 24	TEMA now available on STN
NEWS 24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 25	Feb 26	PCTFULL now contains images
NEWS 26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27	Mar 20	EVENTLINE will be removed from STN
NEWS 28	Mar 24	PATDPAFULL now available on STN
NEWS 29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 30	Apr 11	Display formats in DGENE enhanced
NEWS 31	Apr 14	MEDLINE Reload
NEWS 32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 35	Apr 28	PDISCLOSURE now available on STN
NEWS 36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39	May 16	CHEMREACT will be removed from STN
NEWS 40	May 19	Simultaneous left and right truncation added to WSCA

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 NEWS 41  May 19  RAPRA enhanced with new search field, simultaneous left and
                  right truncation

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Db(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 14:01:22 ON 19 MAY 2003

=> FIL BIOSIS MEDLINE EMBASE LIFESCI CAPLUS
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'BIOSIS' ENTERED AT 14:01:31 ON 19 MAY 2003
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=> s ligand (1a) receptor (s) complex (2a) electromagnetic (2a) signals
L1            0 LIGAND (1A) RECEPTOR (S) COMPLEX (2A) ELECTROMAGNETIC (2A)
SIGNAL
                S

=> s ligand (1a) receptor (s) complex (2a) electromagnetic (2a) signals
L2            0 LIGAND (1A) RECEPTOR (S) COMPLEX (2A) ELECTROMAGNETIC (2A)
SIGNA
                LS

=> s ligand (1a) receptor (s)binding (2a) electromagnetic (2a) signals
L3            0 LIGAND (1A) RECEPTOR (S) BINDING (2A) ELECTROMAGNETIC (2A)
SIGNA
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                LS

=> s ligand (2a) receptor (s)binding (2a) electromagnetic (2a) signals
L4              0 LIGAND (2A) RECEPTOR (S) BINDING (2A) ELECTROMAGNETIC (2A)
SIGNA
                LS

=> s ligand (2a) receptor (2a)binding (2a) electromagnetic (2a) signals
L5              0 LIGAND (2A) RECEPTOR (2A) BINDING (2A) ELECTROMAGNETIC (2A)
                  SIGNALS

=> s ligand (2a) receptor (2a)binding and electromagnetic (2a) signals
L6              0 LIGAND (2A) RECEPTOR (2A) BINDING AND ELECTROMAGNETIC (2A)
SIGNA
                LS

=> ligand-receptor (2a) complex or binding
LIGAND-RECEPTOR IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s ligand-receptor (2a) complex or binding
   4 FILES SEARCHED...
L7      2697454 LIGAND-RECEPTOR (2A) COMPLEX OR BINDING

=> s l7 and signals
L8        46875 L7 AND SIGNALS

=> s l8 and electromagnetic
L9           43 L8 AND ELECTROMAGNETIC

=> s l9 and transducer
L10           0 L9 AND TRANSDUCER

=> s l9 and activity
L11          10 L9 AND ACTIVITY

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12           5 DUP REM L11 (5 DUPLICATES REMOVED)

=> d l12 1-5

L12  ANSWER 1 OF 5  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   2002:120026  BIOSIS
DN   PREV200200120026
TI   Electromagnetic activity of yeast cells in the M
     phase.
AU   Pokorny, J. (1); Hasek, J.; Jelinek, F.; Saroch, J.; Palan, B.
CS   (1) Institute of Radio Engineering and Electronics, Academy of Sciences
of
     the Czech Republic, Chaberska 57, 182 51, Prague 8: pokorny@ure.cas.cz
     Czech Republic
SO   Electro- and Magnetobiology, (November, 2001) Vol. 20, No. 3, pp.
371-396.
     print.
     ISSN: 1061-9526.
DT   Article
LA   English
```

L12 ANSWER 2 OF 5 MEDLINE
AN 1998363086 MEDLINE
DN 98363086 PubMed ID: 9699506
TI Effects of **electromagnetic** stimulation on the functional responsiveness of isolated rat osteoblasts.
AU Shankar V S; Simon B J; Bax C M; Pazianas M; Moonga B S; Adebanjo O A; Zaidi M
CS Center for Osteoporosis and Skeletal Aging, Philadelphia VA Medical Center, Pennsylvania 19104, USA.
NC R01 AG14917-01 (NIA)
SO JOURNAL OF CELLULAR PHYSIOLOGY, (1998 Sep) 176 (3) 537-44.
Journal code: 0050222. ISSN: 0021-9541.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Space Life Sciences
EM 199809
ED Entered STN: 19980903
Last Updated on STN: 19980903
Entered Medline: 19980821

L12 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1997:460635 BIOSIS
DN PREV199799759838
TI A novel chloride-**binding** site modulates the heme-copper binuclear center of the Escherichia coli bo-type ubiquinol oxidase.
AU Hirano, Tomoyasu; Mogi, Tatsushi (1); Tsubaki, Motonari; Hori, Hiroshi; Orii, Yutaka; Anraku, Yasuhiro
CS (1) Dep. Biological Sciences, Graduate Sch. Science, Univ. Tokyo, Hongo, Bunky-ku, Tokyo 113 Japan
SO Journal of Biochemistry (Tokyo), (1997) Vol. 122, No. 2, pp. 430-437.
ISSN: 0021-924X.
DT Article
LA English

L12 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AN 1990:493060 BIOSIS
DN BA90:121426
TI ION ACTIVATION OF THE SODIUM POTASSIUM ATPASE IN ALTERNATING CURRENTS.
AU BLANK M; SOO L
CS DEP. PHYSIOL. CELLULAR BIOPHYSICS, COLUMBIA UNIV., 630 WEST 168TH ST., NEW
YORK, N.Y. 10032.
SO BIOELECTROCHEM BIOENERG, (1990) 24 (1), 51-62.
CODEN: BEBEBP. ISSN: 0302-4598.
FS BA; OLD
LA English

L12 ANSWER 5 OF 5 LIFESCI COPYRIGHT 2003 CSA DUPLICATE 3
AN 86:70123 LIFESCI
TI The sequence and energetics of cell membrane transductive coupling to intracellular enzyme systems.
AU Adey, W.R.
CS Pettis Mem. Veterans Hosp., Loma Linda, CA 92357, USA
SO BIOELECTROCHEM. BIOENERGET., (1986) vol. 15, no. 3, pp. 447-456.
DT Journal
FS M

```
LA   English
SL   English


=> FIL MEDLINE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        81.77      81.98

FILE 'MEDLINE' ENTERED AT 14:09:20 ON 19 MAY 2003

 FILE LAST UPDATED: 17 MAY 2003 (20030517/UP).  FILE COVERS 1958 TO DATE.

 On April 13, 2003, MEDLINE was reloaded.  See HELP RLOAD for details.

 MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
 MeSH 2003 vocabulary.  See http://www.nlm.nih.gov/mesh/changes2003.html
 for a description on changes.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> E BENVENISTE J/AU 25
E1           19     BENVENISTE I/AU
E2            1     BENVENISTE IRENE/AU
E3          260 --> BENVENISTE J/AU
E4           10     BENVENISTE K/AU
E5            1     BENVENISTE K B/AU
E6            2     BENVENISTE L/AU
E7           35     BENVENISTE M/AU
E8            3     BENVENISTE M J/AU
E9            4     BENVENISTE MORRIS/AU
E10          26     BENVENISTE O/AU
E11           2     BENVENISTE OLIVIER/AU
E12          64     BENVENISTE P/AU
E13           1     BENVENISTE P S/AU
E14           1     BENVENISTE PATRICIA/AU
E15          62     BENVENISTE R/AU
E16         107     BENVENISTE R E/AU
E17           6     BENVENISTE R J/AU
E18           2     BENVENISTE RAOUL E/AU
E19          13     BENVENISTE S/AU
E20           1     BENVENISTE SCHRODE K/AU
E21           1     BENVENISTI A/AU
E22           3     BENVENISTI D/AU
E23           3     BENVENISTI D S/AU
E24           1     BENVENISTI I/AU
E25           3     BENVENISTI L/AU

=> S (E3) AND 1993<=PY<=1998
           260 "BENVENISTE J"/AU
       2518479 1993<=PY<=1998
L13         26 ("BENVENISTE J"/AU) AND 1993<=PY<=1998

=> DIS L13 1- TI
YOU HAVE REQUESTED DATA FROM 26 ANSWERS - CONTINUE? Y/(N):Y

L13  ANSWER 1 OF 26     MEDLINE
TI   Meta-analysis of homoeopathy trials.
```

L13 ANSWER 2 OF 26 MEDLINE
TI Presence of paf-acether in human blood after thin-layer chromatography, but not after high-performance liquid chromatography purification.

L13 ANSWER 3 OF 26 MEDLINE
TI Biochemical and cellular effects of heparin-protamine injection in rabbits
are partially inhibited by a PAF-acether receptor antagonist.

L13 ANSWER 4 OF 26 MEDLINE
TI Decrease of ciliary beat frequency by platelet activating factor: protective effect of ketotifen.

L13 ANSWER 5 OF 26 MEDLINE
TI Regulation of platelet-activating factor production in gastric epithelial cells.

L13 ANSWER 6 OF 26 MEDLINE
TI Tissue levels of histamine, PAF-acether and lysopaf-acether in carrageenan-induced granuloma in rats.

L13 ANSWER 7 OF 26 MEDLINE
TI Liver and plasma concentrations in paf-acether and its precursors after partial hepatectomy.

L13 ANSWER 8 OF 26 MEDLINE
TI Intraluminal excretion of PAF, lysoPAF, and acetylhydrolase in patients with ulcerative colitis.

L13 ANSWER 9 OF 26 MEDLINE
TI Inhibition of PAF-acether effects on isolated guinea pig hearts by zinc ions (Zn2+).

L13 ANSWER 10 OF 26 MEDLINE
TI Studies on the surface properties of human lymphocytes by photon correlation spectroscopy technique.

L13 ANSWER 11 OF 26 MEDLINE
TI Voltage-dependent ion channels on human basophils: do they exist?.

L13 ANSWER 12 OF 26 MEDLINE
TI Human umbilical vein endothelial cells: specific binding of platelet-activating factor and cytosolic calcium flux.

L13 ANSWER 13 OF 26 MEDLINE
TI Correlations between PAF-acether and tumor necrosis factor in rheumatoid arthritis. Influence of parenteral corticosteroids.

L13 ANSWER 14 OF 26 MEDLINE
TI Treatment of carrageenan induced arthritis by the platelet activating factor antagonist BN 50730.

L13 ANSWER 15 OF 26 MEDLINE
TI Anti-IgE induces the opening of non selective cation channels on human basophils.

L13 ANSWER 16 OF 26 MEDLINE
TI Memory of water revisited.

L13 ANSWER 17 OF 26 MEDLINE

TI Modulation of stress proteins by Cd2+ in a human T cell line.

L13 ANSWER 18 OF 26 MEDLINE
TI Gastric secretion of platelet activating factor and precursors in healthy humans: effect of pentagastrin.

L13 ANSWER 19 OF 26 MEDLINE
TI Cadmium induces apoptosis in a human T cell line.

L13 ANSWER 20 OF 26 MEDLINE
TI Inhibition by cardiolipins of platelet-activating factor-induced rabbit platelet activation.

L13 ANSWER 21 OF 26 MEDLINE
TI Regulation of human basophil activation; the role of Na+ and Ca2+ in IL-3-induced potentiation of IgE-mediated histamine release from human basophils.

L13 ANSWER 22 OF 26 MEDLINE
TI The effects of Zn2+ on guinea pig isolated heart preparations.

L13 ANSWER 23 OF 26 MEDLINE
TI Presence of anti-insulin reaginic auto-antibodies of the IgG4 class in insulin-dependent (type I) diabetic patients before insulin therapy.

L13 ANSWER 24 OF 26 MEDLINE
TI Allergic sensitization in infantile autism.

L13 ANSWER 25 OF 26 MEDLINE
TI Human platelets release a paf-acether: acetylhydrolase similar to that in plasma.

L13 ANSWER 26 OF 26 MEDLINE
TI Immunoregulatory functions of paf-acether. IX. Modulation of apoptosis in an immature T cell line.

=> DIS L13 1-10 TI

L13 ANSWER 1 OF 26 MEDLINE
TI Meta-analysis of homoeopathy trials.

L13 ANSWER 2 OF 26 MEDLINE
TI Presence of paf-acether in human blood after thin-layer chromatography, but not after high-performance liquid chromatography purification.

L13 ANSWER 3 OF 26 MEDLINE
TI Biochemical and cellular effects of heparin-protamine injection in rabbits
are partially inhibited by a PAF-acether receptor antagonist.

L13 ANSWER 4 OF 26 MEDLINE
TI Decrease of ciliary beat frequency by platelet activating factor: protective effect of ketotifen.

L13 ANSWER 5 OF 26 MEDLINE
TI Regulation of platelet-activating factor production in gastric epithelial cells.

L13 ANSWER 6 OF 26 MEDLINE

TI Tissue levels of histamine, PAF-acether and lysopaf-acether in carrageenan-induced granuloma in rats.

L13 ANSWER 7 OF 26 MEDLINE
TI Liver and plasma concentrations in paf-acether and its precursors after partial hepatectomy.

L13 ANSWER 8 OF 26 MEDLINE
TI Intraluminal excretion of PAF, lysoPAF, and acetylhydrolase in patients with ulcerative colitis.

L13 ANSWER 9 OF 26 MEDLINE
TI Inhibition of PAF-acether effects on isolated guinea pig hearts by zinc ions (Zn2+).

L13 ANSWER 10 OF 26 MEDLINE
TI Studies on the surface properties of human lymphocytes by photon correlation spectroscopy technique.

=> DIS L13 11-20 IBIB ABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L13 ANSWER 11 OF 26 MEDLINE
ACCESSION NUMBER: 96078158 MEDLINE
DOCUMENT NUMBER: 96078158 PubMed ID: 7590933
TITLE: Voltage-dependent ion channels on human basophils: do they exist?.
AUTHOR: Beauvais F; Burtin C; **Benveniste J**
CORPORATE SOURCE: INSERM U200, Universite Paris-Sud, Clamart, France.
SOURCE: IMMUNOLOGY LETTERS, **(1995 May)** 46 (1-2) 81-3.
Journal code: 7910006. ISSN: 0165-2478.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199512
ENTRY DATE: Entered STN: 19960124
Last Updated on STN: 19970203
Entered Medline: 19951207

AB The presence of voltage-dependent ion channels (particularly Ca2+ channels) on the surface of 'non excitable' cells such as human basophils is a matter of debate. Indeed, in basophils, Ca2+ entry or mobilization is not sufficient by itself to trigger secretion, although enhanced cytosolic Ca2+ concentration increases it. In order to address this question, we used a two-signal model and we report here experiments which suggest the presence of voltage-dependent structures directly or indirectly linked to membrane Ca2+ pathways. Indeed, it is known that, in the presence of PMA at threshold concentration (1st signal), elevation of cytosolic Ca2+ (2nd signal) induces histamine release. We observed that a depolarizing external solution (high K+) induced a Ca(2+)-dependent release of histamine from PMA-treated human basophils. High K+ alone did not induce histamine release. Although the voltage-sensitive component and the physiological relevance of this mechanism remain to be defined, these results suggest that this voltage-dependent Ca2+ influx in the human basophil could contribute to the up-regulation of histamine release.

L13 ANSWER 12 OF 26 MEDLINE
ACCESSION NUMBER: 95321978 MEDLINE
DOCUMENT NUMBER: 95321978 PubMed ID: 7598741
TITLE: Human umbilical vein endothelial cells: specific binding of
platelet-activating factor and cytosolic calcium flux.
AUTHOR: Kurth R M; Hirafuji M; **Benveniste J**; Russo-Marie F
CORPORATE SOURCE: Forschung in der Allgemeinmedizin FIDA, Munich, Germany.
SOURCE: BIOCHEMICAL PHARMACOLOGY, **(1995 Jun 16)** 49 (12) 1793-9.
Journal code: 0101032. ISSN: 0006-2952.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199508
ENTRY DATE: Entered STN: 19950817
Last Updated on STN: 19950817
Entered Medline: 19950803

AB An interaction of the platelet-activating factor (Paf) with endothelial cells was investigated using human umbilical vein endothelial cells. Confluent endothelial cells bound [3H]Paf in the presence of 0.25% fatty acid-free serum albumin after culture in media containing either heat-inactivated foetal calf serum or serum substitute. The Scatchard analysis of the saturated specific [3H]Paf binding showed a Bmax of 2.5 fmol indicating 2800 binding sites per endothelial cell. [3H]Paf binding was partially reversible at 20 degrees and 4 degrees and endothelial cells partially metabolized [3H]Paf at 20 degrees but not at 4 degrees. [3H]Paf binding and Paf-mediated increase of cytosolic free calcium were inhibited by specific Paf receptor antagonists which do not interfere with Paf metabolism. Immortalized umbilical vein endothelial cells bound [3H]Paf specifically after culture in the presence of insulin (20 hr, 0.4 U/mL) with non-specific binding in the absence of insulin. The results show that specific Paf binding mediated calcium flux in human endothelial cells.

L13 ANSWER 13 OF 26 MEDLINE
ACCESSION NUMBER: 95296663 MEDLINE
DOCUMENT NUMBER: 95296663 PubMed ID: 7777830
TITLE: Correlations between PAF-acether and tumor necrosis factor in rheumatoid arthritis. Influence of parenteral corticosteroids.
AUTHOR: Hilliquin P; Houbaba H; Aissa J; **Benveniste J**; Menkes C J
CORPORATE SOURCE: Service de Rhumatologie A, Hopital Cochin, Paris, France.
SOURCE: SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, **(1995)** 24 (3) 169-73.
Journal code: 0321213. ISSN: 0300-9742.
PUB. COUNTRY: Norway
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199507
ENTRY DATE: Entered STN: 19950720
Last Updated on STN: 19980206
Entered Medline: 19950711

AB The aim of this study was to evaluate the presence of PAF-acether (PAF), its specific degrading enzyme acetylhydrolase, and tumor necrosis factor (TNF) concentrations in blood and synovial fluid (SF) from patients with active RA. The variations of the mediators were also evaluated after corticosteroid perfusions in 7 patients. Lipo-PAF (PAF complexed to lipoproteins) was the main form of PAF detected both in blood and in SF, whereas unbound PAF was uncommon. Acetylhydrolase activity was also present in SF, with a strong correlation between serum and SF levels. TNF was detected in most of the samples, and TNF and acetylhydrolase levels were strongly correlated both in blood and in SF. Despite dramatic clinical improvement, corticosteroid treatment was not accompanied by a significant reduction of the concentration of blood mediators, suggesting that these molecules should not be considered as markers of disease activity.

L13 ANSWER 14 OF 26 MEDLINE
ACCESSION NUMBER: 95216978 MEDLINE
DOCUMENT NUMBER: 95216978 PubMed ID: 7702404
TITLE: Treatment of carrageenan induced arthritis by the platelet activating factor antagonist BN 50730.
AUTHOR: Hilliquin P; Natour J; Aissa J; Guinot P; Laoussadi S; **Benveniste J**; Menkes C J; Arnoux B
CORPORATE SOURCE: Service de Rhumatologie A, Hopital Cochin, Paris, France.
SOURCE: ANNALS OF THE RHEUMATIC DISEASES, **(1995 Feb)** 54 (2) 140-3.
Journal code: 0372355. ISSN: 0003-4967.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199505
ENTRY DATE: Entered STN: 19950510
Last Updated on STN: 19950510
Entered Medline: 19950504
AB OBJECTIVE--To evaluate the role of platelet activating factor (PAF) in the early stage of arthritis. METHODS--Arthritis was induced in rabbits by weekly intra-articular injections of carrageenan. A PAF receptor antagonist, BN 50730, was used as a preventive or curative agent. RESULTS--BN 50730 was able partially to prevent the development of arthritis, and was also active on established arthritis. The joint arthritis scores of BN treated animals were significantly lower than those of the non-treated animals. The blood concentrations of PAF, PAF bound to lipoproteins (lipo-PAF), and its precursor, lyso-PAF, were not correlated with clinical variations. CONCLUSIONS--The present data demonstrate a therapeutic action of a PAF antagonist in experimental arthritis and suggest a critical role for PAF during the early stage of arthritis.

L13 ANSWER 15 OF 26 MEDLINE
ACCESSION NUMBER: 95011951 MEDLINE
DOCUMENT NUMBER: 95011951 PubMed ID: 7523262
TITLE: Anti-IgE induces the opening of non selective cation channels on human basophils.
AUTHOR: Beauvais F; Shimahara T; Inoue I; **Benveniste J**
CORPORATE SOURCE: INSERM U200, Universite Paris-Sud, Clamart, France.
SOURCE: FUNDAMENTAL AND CLINICAL PHARMACOLOGY, **(1994)** 8 (3) 246-50.

Journal code: 8710411. ISSN: 0767-3981.
PUB. COUNTRY: France
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199411
ENTRY DATE: Entered STN: 19941122
Last Updated on STN: 19960129
Entered Medline: 19941102

AB Basophils play a major role in allergic reactions-particularly in late phase reactions-by releasing histamine and other mediators of inflammation. Although transmembrane ion fluxes are thought to play an important role in the modulation of histamine release, little is known about ion pathways through the basophil membrane. We thus studied human basophils from normal subjects (n = 28 cells) with the patch-clamp method.

We observed that IgE-dependent activation of human basophils led to the opening of non selective cation channels with a 20pS conductance. This was obtained when the patch pipette was applied onto the cell surface and sealed onto it in order to measure transmembrane currents on a small surface of intact basophils (cell-attached configuration). Non selective channels with the same 20pS conductance were also observed when a membrane patch was detached from basophil and its inner side placed in a Ca(2+)-containing medium (inside-out configuration). These data are a first contribution of the patch-clamp method in the understanding of ion movements in human basophils.

L13 ANSWER 16 OF 26 MEDLINE
ACCESSION NUMBER: 94323698 MEDLINE
DOCUMENT NUMBER: 94323698 PubMed ID: 8047128
TITLE: Memory of water revisited.
COMMENT: Comment on: Nature. 1993 Dec 9;366(6455):525-7
AUTHOR: **Benveniste J**; Ducot B; Spira A
SOURCE: NATURE, **(1994 Aug 4)** 370 (6488) 322.
Journal code: 0410462. ISSN: 0028-0836.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Commentary
Letter
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199408
ENTRY DATE: Entered STN: 19940909
Last Updated on STN: 19950206
Entered Medline: 19940830

L13 ANSWER 17 OF 26 MEDLINE
ACCESSION NUMBER: 94314046 MEDLINE
DOCUMENT NUMBER: 94314046 PubMed ID: 8039551
TITLE: Modulation of stress proteins by Cd2+ in a human T cell line.
AUTHOR: Pellegrini O; Davenas E; Morin L; Tsangaris G T; **Benveniste J**; Manuel Y; Thomas Y
CORPORATE SOURCE: Institut National de la Sante et de la Recherche Medicale (INSERM) U 200, Clamart, France.
SOURCE: EUROPEAN JOURNAL OF PHARMACOLOGY, **(1994 Apr 4)** 270 (2-3) 321-8.
Journal code: 1254354. ISSN: 0014-2999.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199408
ENTRY DATE: Entered STN: 19940805
Last Updated on STN: 19970203
Entered Medline: 19940824

AB We previously showed in a human T cell line (CEM-C12 cells) that Cd2+ induced gene expression of stress proteins, metallothionein-IIA and heat shock protein 70 in a time- and dose-dependent manner. In the present study, CEM-C12 cells were pretreated for 24 h with 1 microM Cd2+ and then challenged with toxic concentrations of this metal. We found that maximal expression of the metallothionein-IIA and heat shock protein 70 genes was increased and this maximal level occurred at higher Cd2+ toxic concentrations. Actinomycin D chase experiments indicated that Cd2+ pretreatment did not modify metallothionein-IIA mRNA stability. The modulatory effect of Cd2+ pretreatment was dose-dependent from 100 pM to 1 microM. Such pretreatment also enhanced resistance to Cd2+ toxicity. Finally, verapamil, a calcium/potassium channel blocker displaced the dose-response curve for Cd2+ toxicity as well as metallothionein-IIA and heat shock protein 70 gene expression to higher Cd2+ concentrations.

L13 ANSWER 18 OF 26 MEDLINE
ACCESSION NUMBER: 94229541 MEDLINE
DOCUMENT NUMBER: 94229541 PubMed ID: 8174952
TITLE: Gastric secretion of platelet activating factor and precursors in healthy humans: effect of pentagastrin.
AUTHOR: Sobhani I; Denizot Y; Bochlaf S; Rigaud D; Vatier J; **Benveniste J**; Lewin M J; Mignon M
CORPORATE SOURCE: Service de Gastroenterologie, Hopital Bichat, Paris, France.
SOURCE: GUT, **(1993 Aug)** 34 (8) 1051-6.
Journal code: 2985108R. ISSN: 0017-5749.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199406
ENTRY DATE: Entered STN: 19940620
Last Updated on STN: 19970203
Entered Medline: 19940607

AB The release of platelet activating factor (PAF-ACETHER or PAF) and its precursors in the gastric lumen was assessed in 13 normal subjects in basal condition and after stimulation by gastrin. Acid, pepsin, and sialic acid outputs were determined under the same conditions. Gastric juice was collected using a nasogastric tube after overnight fast in basal condition for 60 minutes, then under pentagastrin infusion (6 micrograms/kg/hr for 60 minutes). Platelet activating factor was detected at low concentration in 4/13 subjects under basal condition (mean (SEM) 1.2 (0.6) pg/hr) while high concentrations of lyso platelet activating factor (6.1 (1.8) microgram/hr) and of alkyl-acyl-glycerophosphocholine (AAGPC) (11.5 (3) micrograms/hr) were found in 13 and 11 subjects, respectively. Platelet activating factor was not detected during pentagastrin infusion, while lyso platelet activating factor and alkyl-acyl-glycerophosphocholine were detected in 13 and in 12 subjects, respectively. Compared with the basal condition these platelet activating

factor precursors increased significantly ($p < 0.001$) going up to fivefold baseline (31.8 (6.8) micrograms/hr and 53 (9.3) micrograms/hr respectively) in response to pentagastrin. There was a positive correlation between platelet activating factor precursors and acid or pepsin output but not between platelet activating factor precursors and sialic acid. As sialic acid may be considered an index of mucus glycoprotein degradation, it seems that gastrin stimulation of gastric epithelial cells results in a concomittant secretion of platelet activating factor precursors, acid, and pepsin irrespective of mucus glycoprotein degradation.

L13 ANSWER 19 OF 26 MEDLINE
ACCESSION NUMBER: 94212369 MEDLINE
DOCUMENT NUMBER: 94212369 PubMed ID: 8160194
TITLE: Cadmium induces apoptosis in a human T cell line.
AUTHOR: el Azzouzi B; Tsangaris G T; Pellegrini O; Manuel Y; **Benveniste J**; Thomas Y
CORPORATE SOURCE: Institut National de la Sante et de la Recherche Medicale (INSERM), Unite 200, Clamart, France.
SOURCE: TOXICOLOGY, **(1994 Mar 11)** 88 (1-3) 127-39. Journal code: 0361055. ISSN: 0300-483X.
PUB. COUNTRY: Ireland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199405
ENTRY DATE: Entered STN: 19940526
Last Updated on STN: 19970203
Entered Medline: 19940518

AB Cadmium, a potent toxic metal, poses a serious environmental threat but the mechanisms of its toxicity remain unclear. In the present study, we investigated the nature of cadmium-induced cell death in the human T cell line CEM-C12. Cadmium was time- and dose-dependently toxic for CEM-C12 cells, cell death being preceded by chromatin condensation and DNA fragmentation. Quantification of the latter indicated an increase above 4 microM cadmium, with maximal fragmentation at 8 to 10 microM. By contrast, when CEM-C12 cells were exposed to higher cadmium concentrations (50 microM), cell death increased without concomitant chromatin condensation or DNA fragmentation. Thus, cadmium at low and high concentration kills CEM-C12 cells by apoptosis and necrosis, respectively. Addition of cycloheximide reduced the apoptotic effect of cadmium, suggesting that cadmium-induced apoptosis is an process depending on protein synthesis. Verapamil, a calcium/potassium channel blocker, markedly increased the viability of CEM-C12 cells treated by low cadmium concentrations and prevented DNA fragmentation. The apoptotic effect of cadmium suggests a possible mechanism for lymphocyte damage occurring after in vivo exposure to cadmium.

L13 ANSWER 20 OF 26 MEDLINE
ACCESSION NUMBER: 94166598 MEDLINE
DOCUMENT NUMBER: 94166598 PubMed ID: 8121255
TITLE: Inhibition by cardiolipins of platelet-activating factor-induced rabbit platelet activation.
AUTHOR: Tsoukatos D; Dempoulos C A; Tselepis A D; Moschidis M C; Donos A; Evangelou A; **Benveniste J**
CORPORATE SOURCE: Department of Chemistry, School of Science, University of

Ioannina, Greece.
SOURCE: LIPIDS, **(1993 Dec)** 28 (12) 1119-24.
Journal code: 0060450. ISSN: 0024-4201.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199404
ENTRY DATE: Entered STN: 19940412
Last Updated on STN: 19940412
Entered Medline: 19940406

AB Evidence is presented that cardiolipin, a naturally occurring phospholipid, inhibits the aggregatory effect of platelet-activating factor (paf) on rabbit platelets in vitro. Bovine heart cardiolipin was shown to inhibit the aggregation of washed rabbit platelets induced by 1 x 10(-10) M and 2 x 10(-10) M paf with IC50 values (doses for half-maximal inhibition) of 8.4 +/- 0.8 x 10(-7) M and 2.6 +/- 0.6 x 10(-6) M, respectively. Phosphonocardiolipin was also able to inhibit platelet aggregation induced by 1 x 10(-10) M paf with an IC50 value of 3 +/- 1 x 10(-7) M. Both compounds, in concentrations up to 1 x 10(-5) M, were unable to aggregate washed rabbit platelets and failed to inhibit the aggregation induced by 0.9 and 1.8 microM adenosine diphosphate or 0.2-1.0 microM arachidonic acid. By contrast, the acetylated derivative of cardiolipin exerted an aggregatory effect on aspirin-treated rabbit platelets in the presence of creatine phosphate/creatine phosphokinase. This aggregation was inhibited by the specific paf antagonists BN 52021 and WEB 2086. Also, platelets treated with acetyl-cardiolipin were insensitive to the aggregatory effect of paf. Phosphatidic acid, phosphatidylglycerol, bis(dipalmitoylglycero)phosphate and their phosphono analogues were totally inactive. Similar data were obtained when platelet-rich plasma was used instead of washed rabbit platelets. Our results support the hypothesis that the effect of cardiolipin is mediated through specific paf receptors that act on the rabbit platelet membrane.

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.47	87.45

STN INTERNATIONAL LOGOFF AT 14:14:58 ON 19 MAY 2003